

# CATALOGUE OF PHOTOGRAPHIC APPARATUS

AND  
**CHEMICAL PREPARATIONS,**

MANUFACTURED AND SOLD BY

**HORNE, THORNTHWAITE, AND WOOD,**  
Opticians, &c.,

121 & 123, NEWGATE STREET, LONDON.

Messrs. HORNE, THORNTHWAITE, and Wood beg to state that by far the greater number of the articles enumerated in the following List are manufactured by their own workmen on the premises, and consequently under their own immediate superintendence, and will be found of the best construction, and at prices extremely moderate for first-class instruments; they have also much pleasure in informing their friends and the public, that they have had awarded to them the Great Exhibition

## PRIZE MEDAL



## FOR PHOTOGRAPHIC APPARATUS.

Every Explanation and Instruction, both as to the Theory and Manipulation of the various Photographic Processes, will be given gratuitously to Purchasers of Apparatus and others desiring information, either by letter or personally, at their Establishment, No. 121, Newgate Street, where they have erected a glass room expressly for Photographic Experiments.

## WHOLESALE AND RETAIL.

Orders from Abroad, which should be accompanied by an Order for Payment in London, executed with care and despatch.

## ESTIMATES FOR SETS OF PHOTOGRAPHIC APPARATUS.

- No. 1.—Complete Set of Apparatus for the Calotype Process, for taking pictures or views, on paper five inches square, including a sliding camera, mounted, with meniscus lens and sliding adjustment (Fig. 1), focusing glass, and single frame for the sensitive paper; shallow porcelain dish for preparing the sensitive paper, and fixing the picture; two camel's-hair brushes; one quire photographic paper; one quire blotting paper; pressure frame for producing positive pictures; oil lamp, with yellow glass shade; scales, with a set of weights; glass measure, stirring rod, stoppered bottles, and a supply of all the necessary chemicals: the whole packed in a coloured deal case, with lock, key, and handles, £3 13s 6d. and £4 10s.
- No. 2.—For obtaining Calotype Views, 7 inches by 6 inches, consisting of a portable folding camera (Fig. 6), mounted with achromatic lens, in brass front, focusing glass, double frame for holding two pieces of prepared paper, a Buckle's brush, one quire of photographic paper, one quire of bibulous paper, oil lamp and shade, scales and weights, two glass measures, glass rod, glass funnel, reversing frame for positive pictures, porcelain dish for preparing and fixing the picture, and a full supply of chemicals in stoppered glass bottles: the whole packed in a coloured deal case adapted for travelling, £7 17s 6d., and £10 10s.
- No. 3.—The foregoing Apparatus adapted for both Glass and Paper Processes, with an extra back fitted to camera for glass plates, box to hold 1 dozen glass plates, levelling stand with adjusting screws, gutta percha dipping-trough, and glass holder, extra porcelain dish, portable tripod stand for camera, and all the necessary chemicals for both the glass and paper processes, including prepared collodion, pyro-gallic acid, &c. &c., £10 10s. and £13 13s.
- No. 4.—The above Apparatus of the best construction, complete for taking both views and portraits on glass and paper, with an improved double achromatic lens, forming a short focus lens for portraits, and a long focus for views, adjusting front to camera for altering the relative amount of foreground and sky: the whole packed in two cases; one of leather in the form of a knapsack to hold the folding camera, double back, and lens (Fig. 7), the other of coloured deal, containing the remainder of the apparatus, chemicals, &c., £21.



- No. 5.—A Portable Apparatus complete, of the best description and manufacture, for taking calotype views, 9 inches by 7 inches, with best single achromatic lens, all the necessary chemicals and materials : the whole packed in two cases for travelling ; one in leather, containing the camera, lens, and backs for holding the prepared paper represented in Fig. 7, and the other of coloured deal, for holding the remainder of the apparatus and chemicals, £17 17s.
- No. 6.—Ditto ditto, adapted for taking both views and portraits on glass and paper, from 9 inches by 7 inches and downwards, with best compound achromatic lens, portable folding camera stand, and a full supply of all the necessary chemicals and materials : packed in two cases, one leather and the other wood, as before described, £25 ; or with largest size compound lens, glasses, dipping trough, &c. £35.

N.B. The assortments, Nos. 4, 5, and 6, can be confidently recommended to tourists and others, especially for use abroad, the whole being constructed to resist the effect of climate, and in the most complete and portable manner. They contain not only the necessary apparatus and chemicals for conducting the various processes, but also others which conduce much to the facility of manipulation.

## SETS OF DAGUERREOTYPE APPARATUS.

The silvered plates on which the pictures are obtained are not included in the following prices. The quantity of each size required must be ordered separately.

- No. 7.—Complete Set of Daguerreotype Apparatus, for obtaining pictures on plates up to  $4\frac{1}{4}$  inches by  $3\frac{1}{4}$  inches, including a sliding camera (Fig. 5), with single achromatic lens mounted in brass ; rack and pinion adjustment ; three dark frames ; focusing glass in frame ; iodine and bromine pans, with glass covers and frames ; three plate boxes ; plate holder ; two polishing buffs ; mercury box with thermometer ; washing tray, and stand of best porcelain ; spirit lamp ; pliers ; gilding stand on foot, with adjusting screws ; glass funnel and filtering paper, with the necessary chemicals and polishing substances : the whole packed in two neat coloured cases, with lock, key, and handles, £6 6s ; of best construction, £10 10s. ; if with improved bromine apparatus and double achromatic lens, £15 15s.

- No. 8.—Set of Daguerreotype Apparatus, for obtaining portraits, &c., on plates up to  $6\frac{1}{2}$  inches by  $4\frac{3}{4}$  inches, with best double achromatic lens of short focus; adjusting camera and dark frames; improved bromine and iodine apparatus; set of polishing buffs; plate boxes; polishing blocks; camera stand; head rest; mercury box; washing tray; gilding stand; spirit lamp; pliers; boxes of polishing materials; glass funnel, filtering paper, and all the necessary chemicals and polishing materials: the whole packed in two coloured cases, with lock, key, and handles, £25.
- No. 9.—Ditto ditto, for taking daguerreotype pictures, up to  $8\frac{1}{2}$  inches, by  $6\frac{1}{2}$  inches, complete with all the best apparatus, and a full supply of chemicals; packed in two cases, £42.
- No. 10.—Estimate for a complete Daguerreotype Apparatus, suitable for the professional photographer, consisting of a large-sized camera and compound lens for large views, portraits, and groups; small size camera, with large aperture and short focus combination of lenses, for taking portraits up to 4 inches by 3 inches in dull weather; polishing lathe, with series of circular buffs; three hand buffs; set of metal plate holders and supports; heating stand; large bromine and iodine apparatus and set of frames; set of plate boxes to hold two dozen each; table stand for camera on rollers; adjusting chair, with head rest; adjusting head rest, with heavy iron foot for full-length portraits, &c.; large mercury box for the different sized plates; lantern, with yellow glass shade; metal still and worm tub for obtaining distilled water; a large and small gilding stand; stone-ware barrel and cock for holding distilled water; porcelain dishes; filtering stand; funnels and filtering paper; spirit lamps; set of daguerreotype colours and brushes, and flexible India-rubber bottle; glass measures; two painted back grounds, &c., &c., with a full supply of all the necessary chemicals, polishing materials, &c., complete, £110.
- No. 11.—Sets of Apparatus complete for general photographic experiments, including all the instruments, apparatus, and chemicals necessary to produce pictures by the best processes, on paper, glass, and metal plates: the whole packed in two neat cases, for pictures, 6 inches by 5 inches, 7 in. by 6 in., and 9 in. by 7 in., £25, £30, and £60.



# PHOTOGRAPHIC CAMERAS.

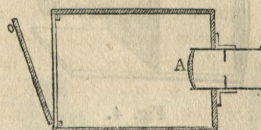


Fig. 1.

Fig. 1.—Camera of ordinary construction shown in section at Fig. 1, with a sliding brass front, and meniscus lens (A)—for pictures 5 in. square ... .. £1 10 0  
 Ditto for pictures about 9 in. by 7 in. ... .. 2 10 0

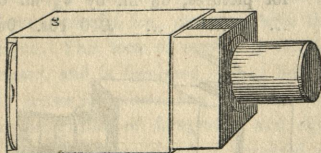


Fig. 2.

Fig. 2.—Cundell's Camera, with meniscus lens, for obtaining pictures on paper, 7 in. by 6 in., as described by him in the "Philosophical Magazine." ... .. £3 3 0 and £4 4 0

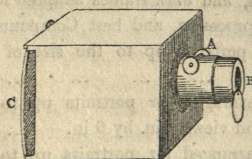


Fig. 3.

Fig. 3.—Camera with Achromatic Lens, mounted in brass, and rack-work adjustment, fitted for either glass, plates, or paper. £2 2 0 and £3 3 0

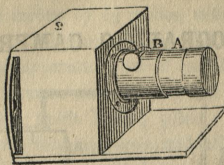


Fig. 4.

Fig. 4.—Camera adapted for the daguerreotype and glass processes,		fitted with a best Compound Achromatic Lens for pictures, $3\frac{1}{4}$ in.					
by $2\frac{3}{4}$ in.	...	...	£4	4s.	0d.	£5	5s. 0d. and £6 6 0
Ditto	ditto	for pictures, 4 in. by 3 in. down-					
wards	...	...	...	...	£5	15s. 6d. and	7 7 0
Ditto	ditto	for pictures, 5 in. by 4 in. down-					
wards	...	...	...	...	£8	8s. 0d. and	10 10 0
Ditto	ditto	for pictures, $6\frac{1}{2}$ in. by $4\frac{3}{4}$ in. down-					
wards	...	...	...	...	£10	10s. 0d. and	12 12 0

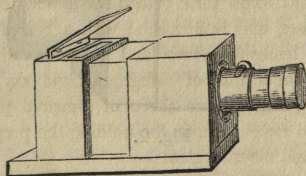


Fig. 5.

Fig. 5.—Improved expanding Camera, adapted for taking both views		and portraits, with long or short focus lens, fitted complete with					
ground focusing glass, and dark frames adapted for the daguerreotype,		calotype, and glass processes, and best Compound Achromatic Lens,		arranged for taking portraits up to the size of 4 in. by 3 in., and			
views, 6 in. by 5 in.		...	...	...	...	£6	16 6
Ditto	ditto	arranged for portraits up to the size					
of $6\frac{1}{2}$ in. by $4\frac{3}{4}$ in., and views 7 in. by 6 in.	...	...	...	...	12	0 0	
Ditto	ditto	arranged for portraits up to the size					
of $8\frac{1}{2}$ in. by $6\frac{1}{2}$ in., and views 9 in. by 7 in.	...	...	...	...	20	0 0	

If the foregoing cameras are fitted with Horne and Co.'s improved adjusting backs, for bringing objects that are at different distances to a focus, and representing them in correct perspective, the price will be £1 extra.



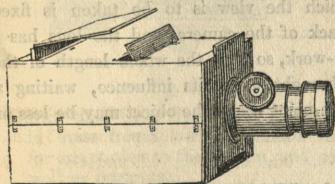


Fig. 6.

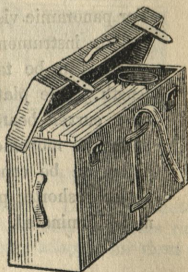


Fig. 7.

Fig. 6.—Horne and Co.'s Improved Folding Portable Cameras, for tourists, travellers, and others, requiring a most effective instrument for taking views, portraits, &c., combined with the smallest possible bulk and weight. This form of camera is adapted for either paper or glass processes, and is furnished with a best double combination of achromatic lenses for views and portraits, with adjustment for regulating the proportion of foreground and sky, Horne and Co.'s double back for holding two sheets of prepared paper, in the space usually required for one, frame for holding the prepared glass plates, and finely ground focusing glass:—

For views 6 in. by 5 in., and portraits up to 4 in. by 3 in.	£8 18 6
Ditto, 7 „ „ 6 „ „ ditto, 5 „ „ 4 „ „	11 5
Ditto, 9 „ „ 7 „ „ ditto, 6 „ „ 5 „ „	14 14 0
Ditto, 9 „ „ 7 „ „ ditto, 8½ „ „ 6½ „ „	22 0 0

For views on paper only, with a single meniscus achromatic lens, mounted in brass front, for pictures

6 in. by 5 in.	£4 4 0
Ditto, 7 in. by 6 in.	5 5 0
Ditto, for pictures 9 in. by 7 in.	7 7 0

Larger sizes to order.

Fig. 7.—Leather Cases in the form of knapsacks, for holding the camera, lens, &c., as represented at Fig. 7, from £1 10s. to £3.

## TRAVERSING CAMERA.

For panoramic views, about 3 in. by 10 in. ... £10 10 0

This instrument is so constructed that a view of considerable extent can be taken by a lens of moderate diameter and focal length. The plate upon which the view is to be taken is fixed on a curved board at the back of the camera, and the lens has a horizontal movement by rack-work, so that the whole length of the plate can be consecutively brought under its influence, waiting a longer or shorter period at each point where the object may be less or more illuminated.

## CAMERA STANDS.

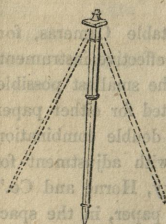


Fig. 8.



Fig. 9.

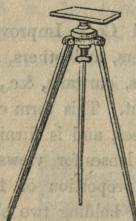


Fig. 10.



Fig. 11.

- Fig. 8.—Tripod Staff, folding into a round stick, with brass mountings, ball and socket joint, clamp screws, and plate for camera, suitable for cameras of small size ... £1 5s. to £2 10 0
- Fig. 9.—Common Tripod Stand and adjusting table at top ... 1 1 0  
Ditto, ditto, without adjusting table ... 0 16 0
- Fig. 10.—Portable Folding Tripod Stand, with ball and socket joint and table for camera ... 2 5 0
- Fig. 11.—Double Tripod Stand. This form of stand will be found very convenient for use, and, from its construction, remarkably firm and portable, and suitable for any sized camera ... £1 5s., £1 10s., and 1 15 0  
Ditto, ditto, shutting into three round sticks ... 2 2 0  
Ditto, ditto, with jointed legs, capable of being packed in an ordinary portmanteau ... 2 5 0



# COMPOUND ACHROMATIC LENSES.

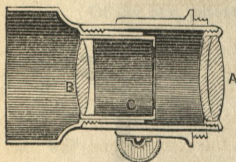


Fig. 12.

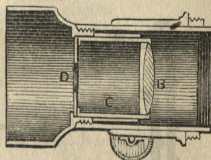


Fig. 13.

Horne and Co.'s Improved Compound Achromatic Lenses, mounted in brass fronts, with a delicate rackwork adjustment, and brass ring for adaptation to the camera, and capable of being adapted for views as well as portraits.

Fig. 12.—Shows a section of one of these lenses as arranged for portraits, when required to be employed as a long focus lens for views the back lens A is removed, the sliding tube C holding the lens B is reversed with respect to the camera as shown at Fig. 13, having, previously to sliding in the tube, placed in the required size of stop at the position D.

No. 1.	For Pictures, $8\frac{1}{2}$ in. by $6\frac{1}{2}$ in.	...	...	...	£15 15 0
No. 2.	Ditto, ditto, arranged for views and portraits fig....	...	...	...	16 16 0
No. 3.	Ditto, ditto, $6\frac{1}{2}$ in. by $4\frac{3}{4}$ in.	...	...	...	7 7 0
No. 4.	Ditto, ditto, arranged for views and portraits fig....	...	...	...	8 8 0
No. 5.	Ditto, ditto, 4 in. by 3 in.	...	...	...	4 14 6
No. 6.	Ditto, ditto, arranged for views and portraits fig....	...	...	...	5 5 0
No. 7.	Ditto, ditto, $3\frac{1}{4}$ in. by $2\frac{3}{4}$ in.	...	...	...	3 13 6

Messrs. H., T., and W. have much pleasure in recommending the above combinations, as producing a remarkably sharp and brilliant picture, very free from aberration, and in the shortest space of time.

Single Achromatic Lenses, unmounted, from 6s. to £5 5s.

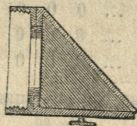


Fig. 14.

Parallel Mirrors, mounted in brass frame, to attach to the front of the camera, for taking pictures in a correct position for  $\frac{1}{4}$  plate lenses. ... .. £1 10 0

Ditto  $\frac{1}{2}$  plate ditto ... .. 2 12 6

Prisms for ditto, ditto, of various sizes (Fig. 14.) from ... .. 3 3 0

Plano-convex, Crossed, Meniscus, and every other description of Lens required in Photographic Experiments.

## HEAD RESTS.

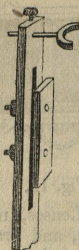


Fig. 15.

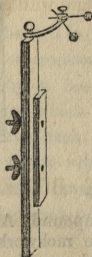


Fig. 16.

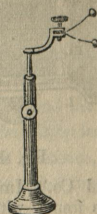


Fig. 17.

Simplest form for attaching to the back of a chair. (Fig. 15.)	...	...	...	£0 5 0 and £0 7 6
Improved Universal Rest, for ditto. (Fig. 16.)	1	1	0	1 10 0
Universal Rest, mounted on heavy foot, with sliding adjusting tube for steadying the head, when the person is either standing or sitting, without the aid of a chair. (Fig. 17.)	...	...	...	3 10 0

## DAGUERREOTYPE PLATES.

## ENGLISH MANUFACTURE.

Size.	Third quality.	Second quality.	Best.	
2½ in. by 2 in.	... £0 0 0	... £0 11 0	... £0 12 0	per doz.
2¾ in. by 3¼ in.	... 0 18 0	... 1 0 0	... 1 0 0	"
4 in. by 3 in.	... 1 7 0	... 1 8 0	... 1 8 0	"
4¼ in. by 3¼ in.	... 0 0 0	... 0 0 0	... 1 12 0	"
5 in. by 4 in.	... 2 3 0	... 0 0 0	... 2 5 0	"
6½ in. by 4¾ in.	... 3 0 0	... 0 0 0	... 3 6 0	"
8½ in. by 6½ in.	... 5 0 0	... 0 0 0	... 7 10 0	"

## FRENCH MANUFACTURE.

	No. 40.	No. 30.	Electro-plated.	
2½ in. by 2 in.	... £0 5 0	... £0 5 6	... £0 6 6	"
2¾ in. by 3¼ in.	... 0 6 0	... 0 8 0	... 0 9 6	"
4 in. by 3 in.	... 0 10 0	... 0 11 6	... 0 12 6	"
4¼ in. by 3¼ in.	... 0 11 0	... 0 12 0	... 0 13 6	"
5 in. by 4 in.	... 0 17 0	... 0 19 0	... 1 1 0	"
6½ in. by 4¾ in.	... 1 4 0	... 1 7 0	... 1 9 6	"
8½ in. by 6½ in.	... 2 3 6	... 2 8 0	... 2 12 6	"



**GLASS PLATES.**

Of the best patent plate with ground edges.

3½ in. by 2¾ in.	...	...	...	...	£0	1	6	per dozen.
4 in. by 3 in.	...	...	...	...	0	2	0	"
5 in. by 4 in.	...	...	...	...	0	2	6	"
6 in. by 5 in.	...	...	...	...	0	3	6	"
8½ in. by 6½ in.	...	...	...	...	0	8	0	"

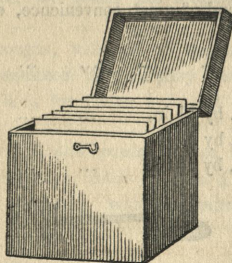
**PLATE BOXES.**

Fig. 18.

Plate Boxes, in mahogany or walnut wood, each to contain 12 silvered or six glass plates of the following sizes :—

2½ in. by 2 in.	...	...	...	...	...	£0	3	6
3¼ in. by 2¾ in.	...	...	...	...	...	0	4	6
4 in. by 3 in.	...	...	...	...	...	0	5	0
4¼ in. by 3¼ in., and 5 in. by 4 in.	...	...	...	...	...	0	5	6
6 in. by 5 in., and 6½ in. by 4¾ in.	...	...	...	...	...	0	6	6
8½ in. by 6½ in.	...	...	...	...	...	0	8	0
Ditto, ditto, with lift top	...	...	...	...	from 3s. to	0	6	0
Ditto, ditto, in deal	...	...	...	...	from 2s. to	0	4	6

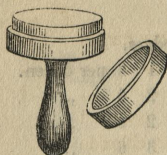
**POLISHING APPARATUS. &c.**

Lathe, complete with collar, mandrill, iron wheel and treddle, wood frame and bed, mounted with two circular velvet buffs, 9 in. diameter, and two plateholders, for sixth or quarter plates, from ... 5 5 0

Metal Frames for holding plates whilst polishing in the lathe :

For sixth size plates ... 0 5 0

For larger size plates ... from 6s. 0d. to 0 9 0



Polishing Block, for holding the plates when polished by hand.

(Fig. 19.) ... .. £0 2 6

Ditto, French pattern, from ... .. 0 2 6

Plate Holder or Clamp, for holding the plates during the cleaning and buffing. This instrument is constructed of iron, and will be found of great convenience, especially for French plates :

Clamp ... .. 0 7 6

Iron Blocks :

For plates  $2\frac{3}{4}$  in. by  $3\frac{1}{4}$  in. ... .. 0 2 0

For plates 4 in. by 3 in. ... .. 0 2 6

For plates  $6\frac{1}{2}$  in. by  $4\frac{3}{4}$  in. ... .. 0 3 0



Fig. 20.

Bufs to work with the hand, covered with velvet or washed leather. (Fig. 20.) :

Small size ... .. 0 2 6

Full size ... .. 0 4 0

Set of six buf s in case for polishing ... .. £1 10 0 and 2 2 0

## IODIZING AND BROMINE PANS AND BOXES.



Fig. 21.



Fig. 23.

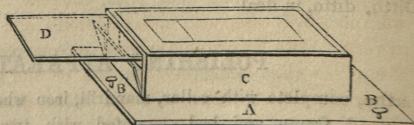


Fig. 22.

Pans of hard glazed porcelain, for containing iodine or accelerating mixtures, with ground plate glass cover, for any size plates up to 4 in. by 3 in. (Fig. 21.) ... .. £0 2 0



	£	s.	d.
Ditto, ditto, in mahogany or walnut cases, with three frames for holding the various sized plates ... ..	0	12	0
Ditto, ditto, with levelling screws, &c. (Fig. 22.) ... ..	1	1	0
Shallow glass pans, or trays, in white or dark coloured glass of various sizes, for the bromine solutions or chloride of iodine, from ... ..	0	3	0
Mahogany or walnut wood frames, for holding plates over ditto, from ... ..	0	1	0
Graduated glass syringes, for dosing the bromine (Fig. 23.) from ... ..	0	0	1
Iodizing or bromine troughs, with set of frames, consisting of deep glass pan, enclosed in mahogany case, air tight glass cover, mirror, &c., for plates 4 in. by 3 in. downwards ... ..	£1	4s. and	1 10 0
Ditto for plates 6 in. by 5 in. downwards, ea. £1 10s. and	2	2	0
Ditto ditto, 8½ in. by 6½ in. ditto ea. £3. 10s. and	4	4	0
Ditto ditto, French pattern, without mirrors, from	1	1	0

## IMPROVED IODIZING AND BROMINE APPARATUS.

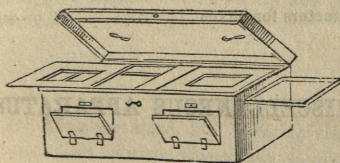


Fig. 24.

Consisting of two stout glass pans, enclosed in mahogany or walnut wood case, with spring bottoms and air-tight glass covers. Two mirrors are placed on one side, for viewing the plate while being prepared, and on the other two apertures for the admission of light. The great advantage of this form of apparatus for preparing plates consists in the facility and certainty with which the sensitive coatings are applied,—

No. 1.—For plates from 8½ in. by 6½ in. downwards ... ..	7	7	0
No. 2.—For plates from 6 in. by 5 in. downwards, £3 10s. to	4	4	0
No. 3.—For plates from 4 in. by 3 in. downwards ... ..	2	10	0

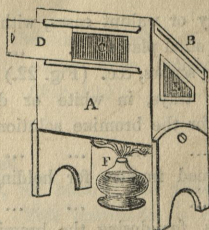


Fig. 25.

Mercury Boxes for small sized Cameras, with iron or porcelain cistern, shifting legs, frame for plates, &c.	15s. and £1	1	0
Ditto ditto, best construction, with cast iron cistern, sliding front and legs, glass window for viewing the development of the picture, and three frames for plates	£1 4s., £1 10s., and	2	2 0
Improved mercury box, with sliding metal frame and rod, with one set of frames		2	2 0
Ditto, with two ditto		3	3 0
Ditto, with three ditto		4	4 0
Mercurial thermometers for boxes		0	7 6

### MISCELLANEOUS APPARATUS.

Earthenware washing tray and stand	...	0	3	6
Ditto, small size	...	0	1	6
Washing trays in copper and glass, from	...	0	2	6
Glass spirit lamps	2s., 3s., 4s., and	0	5	0
Ditto graduated measures	1s. 6d., 2s., 2s. 6d., and	0	3	6
Ditto mortars and pestles, from	...	0	2	6
Ditto stirring rods	...	0	0	3
Ditto funnels	...	0	0	6
Brass spirit lamps, from	...	0	3	6
One quart filterer, with brass cock complete	...	0	10	0
Half-gallon stone barrel with brass cock...	...	0	6	0
Instrument to count seconds, with alarum	...	3	0	0
Ditto ditto, without alarum	...	1	5	0





Fig. 26.

Still, with refrigerator for the distillation of water, with the common fire :—

One-gallon size, ... ..	tin	£1 1s. 6d.	copper	£2 2 0
Two-gallon size, ... ..	ditto	£1 7s. 6d.	ditto	2 10 0
Steel pliers for holding plates over spirit lamp, and drying off				0 2 0
Brass wire forceps for preparing albumenized glass plates				0 2 6
Lanterns with yellow glass shade, from ... ..				0 4 0
Electro-silvering Apparatus, with Smee's battery and glass cells for plates, from ... ..				18s. to 1 10 0

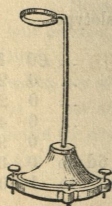


Fig. 27.

Levelling stand for preparing glass plates and setting daguerreotype plates with solution of gold, and three levelling screws, (Fig. 27.)	... ..	8s 6d. and	0 10 6
Ditto of plainer construction	... ..		0 7 6
Ditto, ditto without levelling screws	... ..		0 5 0

Glass tripod stands for ditto	... ..		0 2 0
-------------------------------	--------	--	-------

Gutta Percha dipping troughs, for preparing glass plates,  
(Fig. 28.)

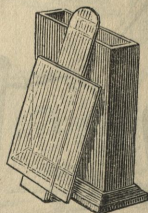


Fig. 28.

						£.	s.	d.
For plates 4 in. by 3 in.	...	...	...	...	...	0	3	0
5 in. by 4 in.	...	...	...	...	...	0	4	0
6 in. by 5 in.	...	...	...	...	...	0	5	6
7 in. by 6 in.	...	...	...	...	...	0	7	0
8½ in. by 6½ in.	...	...	...	...	...	0	9	0
Glass dippers, to use with the above, 1s. each.								

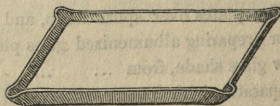


Fig. 29.

Flat shallow porcelain pans for washing and preparing calotype  
paper, &c. :

7 in. by 5 in. inside measurement	...	...	...	...	£0	1	3
9 in. by 8 in. ditto ditto	...	...	...	...	0	2	0
10 in. by 9 in. ditto ditto	...	...	...	...	0	2	6
12 in. by 10 in. ditto ditto	...	...	...	...	0	4	6
Gutta percha dishes for ditto, set of three	...	...	...	...	0	9	0
Scales and weights, common	...	...	...	3s. 6d. to	0	8	6
Ditto ditto, best make, with glass pans	...	...	...	14s. to	1	10	0



Fig. 30.

Pressure frames and glass for obtaining positive photographs, and for ordinary photogenic purposes. (Fig. 30.)	5s. 6d. to	1	1	0
Ditto of best construction, for viewing the development of the picture without disturbing the paper, from	...	1	1	0
Ditto ditto, expressly adapted for taking positive pictures from glass	...	0	10	6
Ditto ditto ditto both glass and paper negatives, from	...	0	14	0



**PHOTOGRAPHIC PAPER.**

Turner's paper, expressly manufactured for photographic purposes :

For positive pictures, per quire	...	...	...	£0	1	6
Negative ditto ditto	...	...	...	0	3	0
Whatman's paper, positive ditto	...	...	...	0	1	6
Ditto ditto, negative, ditto	...	...	...	0	4	0
Canson Frère's positive ditto	...	...	...	0	4	6
Ditto negative ditto	...	...	...	0	3	0
Sandford's negative and positive, per quire	...	...	...	0	2	0
Ditto waxed, ditto	...	...	...	0	10	0
Horne and Co's, positive ditto	...	...	...	0	2	6
White wove filtering or bibulous paper, prepared with great care, and perfectly free from iron, per quire	...	...	...	0	1	3
Iodized paper, per dozen	...	...	...	0	4	0

**DAGUERREOTYPE COLOURS, ETC.**

No. 1. Box containing 15 colours, of the finest quality, in small bottles, with directions for use, and assortment of brushes, silver and gold shell, and elastic bottle ... 2 2 0

No. 2. Box containing 12 best colours, with gold and silver shells, and an assortment of brushes ... 1 10 0

Redman's improved daguerreotype colours and box, complete . 1 1 0

Mansion's ditto ditto £1 11s. 6d. and 2 10 0

Separate colours, 2s., 2s. 6d., and 3s. per bottle.

Camel's hair brushes, per set of four ... 0 0 6

Ditto per dozen ... 0 1 0

Sable brushes, per set of four ... 0 2 0

Ditto per dozen ... 0 5 0

Elastic bottle for drying or removing dust from the plates :

Small size ... 0 3 0

Large size ... 0 4 6

**CLAUDET'S PHOTOGRAPHOMETER.**

An instrument for measuring the intensity of the chemical action of the rays of light on all the photographic preparations, and for comparing with each other the sensitiveness of these preparations. See "London, Edinburgh, and Dublin Philosophical Magazine and Journal of Science" for November, 1848 ... 4 4 0

Claudet's focimeter, for ascertaining the difference existing between the optical and chemical foci of lenses ... 2 2 0

## MOROCCO CASES AND FRAMES.

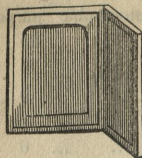


Fig. 31.

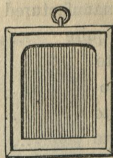


Fig. 32.

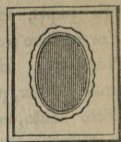


Fig. 33.

Morocco leather cases, lined with velvet, and fitted with gilt mats and glasses, for finished pictures (Fig. 31.)

			Best.	Second Quality.
No. 1. for plates	$2\frac{1}{2}$ in. by 2 in.	... per doz.	£0 15 0	£0 12 0
No. 2. "	$3\frac{1}{4}$ in. by $2\frac{3}{4}$ in.	... "	1 4 0	1 1 0
No. 3. "	4 in. by 3 in.	... "	1 16 0	1 13 0
No. 4. "	$4\frac{1}{4}$ in. by $3\frac{1}{4}$ in.	... "	2 2 0	1 16 0

Morocco frames, with suspension ring, mats, and glasses for plates. (Fig. 32.)

No. 1 size, $2\frac{1}{2}$ in. by 2 in.	... ..	per doz.	0 9 0
No. 2 size, $3\frac{1}{4}$ in. by $2\frac{3}{4}$ in.	... ..	"	0 15 0
No. 3 size, 4 in. by 3 in.	... ..	"	0 18 0
No. 4 size, $4\frac{1}{4}$ in. by $3\frac{1}{4}$ in.	... ..	"	1 1 0

Gilt metal mats, either square, oval, or domeform, of best quality:—

No. 1 size, $2\frac{1}{2}$ in. by 2 in., outside measure	... ..	per doz.	0 2 0
No. 2 size, $3\frac{3}{4}$ in. by $2\frac{3}{4}$ in.	" ..	"	0 2 9
No. 3 size, 4 in. by 3 in.	" ..	"	0 5 0
No. 4 size, $4\frac{1}{4}$ in. by $3\frac{1}{4}$ in.	" ..	"	0 5 6

## PASSE-PARTOUT.

White or black ground, with gilt border. (Fig. 33.)

For pictures of the following sizes, with oval, square, or cushion sights.

	Second quality.	Best.	
One-ninth size, $2\frac{1}{2}$ in. by 2 in.	... £0 4 0	... £0 7 0	per doz.
One-sixth size, $2\frac{3}{4}$ in. by $3\frac{1}{4}$ in.	... 0 4 6	... 0 8 0	"
One-quarter size, 4 in. by 3 in.	0 5 0	0 10 0	"
One-third size, 5 in. by 4 in.	... ..	0 15 0	"
One-half size, $6\frac{1}{2}$ in. by $4\frac{3}{4}$ in.	... ..	1 0 0	"
Whole size, $8\frac{1}{2}$ in. by $6\frac{1}{2}$ in.	... ..	1 10 0	"

A great variety of fancy frames in or-molu, Papier Maché, Gutta Percha, &c. &c.



## PURE CHEMICALS AND PREPARATIONS

FOR

## PHOTOGRAPHIC PURPOSES.

## DAGUERROTYPE.

Bromine ... ..	1 oz. in stoppered bottle	£0 4 0
„ solution ... ..	... .. per oz.	0 0 4
„ chloride prepared for use ... ..	... .. „	0 0 6
Bromide of lime ... ..	per bottle, 3s. 6d. and	0 6 0
„ of iodine ... ..	... .. per oz.	0 1 0
Chloro-bromide of lime ... ..	... per bottle, 3s. 6d. and	0 6 0
Charcoal, finely prepared for finishing plates ...	per packet	0 1 0
Cotton, wool, best ... ..	per oz., 3d.; per lb.	0 3 6
Gold, chloride ... ..	in bottle, $\frac{1}{4}$ drachm	0 3 6
Ditto ... ..	„ $\frac{1}{2}$ „	0 6 0
Ditto ... ..	„ 1 „	0 11 0
Ditto ... ..	„ 2 „	1 1 0
Gold, salt of (sel d'or) ... ..	per bottle	0 5 0
Iodine, pure re-sublimed ... ..	per oz.	0 2 0
„ commercial ... ..	„	0 1 6
„ tincture ... ..	„	0 0 6
„ chloride ... ..	„	0 3 0
Lampblack prepared for buffing ... ..	per packet	0 1 0
Mercury, pure distilled ... ..	per oz., 4d.; per lb.	0 5 0
Naphtha, for burning in spirit-lamp ... ..	per pint, 1s. 6d. and	0 2 0
Rottenstone, finely prepared ... ..	per oz.	0 0 6
Rouge, finely prepared ... ..	„	0 0 6
Redman's solution of gold for fixing ... ..	per bottle	0 1 6
„ sensitive solution ... ..	„	0 2 6
Silver solution (argento cyanide of potassium) for electro-plating worn-out daguerreotype plates ... ..	per oz.	0 2 0
Soda, hyposulphite, pure ... ..	per lb., 3s. „	0 0 3
Tripoli, fine quality ... ..	„	0 0 6
Water, distilled ... ..	per gal.	0 1 0

**CALOTYPE AND PHOTOGENIC.**

Acid acetic, glacial or crystallisable, pure	...	per oz.	£0	0	8
„ gallic	... ..	„	0	3	6
„ succenic	... ..	„	0	5	0
Ammonia, pure	... ..	„	0	0	3
„ muriate, free from iron	... ..	„	0	0	6
Barium, chloride	... ..	„	0	0	6
Iron, protosulphate, pure	... ..	„	0	0	3
„ per nitrate solution	... ..	„	0	0	6
„ ammonio-citrate	... ..	„	0	1	0
„ iodide	... ..	„	0	2	0
Potassium, bromide	... ..	„	0	4	0
„ cyanide	... ..	„	0	0	6
„ iodide	... ..	„	0	2	6
„ ferrocyanide	... ..	„	0	0	6
„ fluoride	... ..	„	0	2	0
Silver nitrate, crystallised	... ..	„	0	5	0
„ ammoniacal nitrate	... ..	„	0	1	0
„ iodide	... ..	„	0	10	0
„ double iodide, for preparing iodized paper	... ..	„	0	1	6
„ aceto nitrate	... ..	„	0	1	0
Soda hyposulphite	... ..	per lb. 3s.	0	0	3
„ muriate, pure	... ..	„	0	0	3
Sodium fluoride	... ..	„	0	2	0
Sugar of milk	... ..	„	0	0	4
White wax	... ..	... per lb.	0	3	0

**GLASS PROCESSES.**

Acid pyrogallic	... ..	per drachm	0	4	0
„ sulphuric	... ..	... per lb.	0	0	3
Acetic acid, glacial	... ..	... per oz.	0	0	8
Arsenious acid	... ..	... „	0	0	6
Collodion	... ..	... „	0	1	0
„ iodized	... ..	... „	0	1	0
Ether, sulphuric	... ..	... „	0	0	6
Iron proto-sulphate	... ..	... „	0	0	3
„ nitrate sol	... ..	... „	0	0	3
„ iodide	... ..	... „	0	2	0
Potass nitrate, powdered	... ..	per lb.	0	1	0
Silver nitrate, crystallised	... ..	... per oz.	0	5	0
„ iodide	... ..	... „	0	10	0
Soda, hyposulphite	... ..	per lb. 3s.	0	0	3

The foregoing prices are subject to variation.



# PANTOSCOPIC SPECTACLES.

BY  
ROYAL



LETTERS  
PATENT.

SOLD BY HORNE, THORNTHWAITE, AND WOOD,

121 & 123, NEWGATE STREET, LONDON.

## PRICES OF THE PATENT PANTOSCOPIC SPECTACLES.

CORRECTLY ADJUSTED TO THE EYE BY SMEE'S OPTOMETER.

			£	s.	d.
Best Gold Frames and Pebbles, with Turnpin sides	...	...	3	3	0
Ditto ditto Single sides	...	...	2	15	0
Best Silver Frames and Pebbles, with Turnpin sides	...	...	1	7	0
Ditto ditto Single sides	...	...	1	5	0
Best Blue Steel Frames and Pebbles, Turnpin sides	...	...	1	5	0
Ditto ditto Single sides	...	...	1	1	0
Best Blue Steel Frames and Best Glasses, Turnpin sides	...	...	0	18	0
Ditto ditto Single sides	...	...	0	15	0
Good Blue Steel Frames and Best Glasses, Turnpin sides	...	...	0	9	0
Ditto ditto Single sides	...	...	0	8	0
Tortoiseshell Frames and Best Glasses, Turnpin sides	...	...	0	15	0
Ditto ditto Single sides	...	...	0	12	0
Horn Frames with Best Glasses, Single sides	...	...	0	5	0

Cataract Spectacles.

Eye-Preservers of various kinds, from 7s. 6d. to £3 3s.

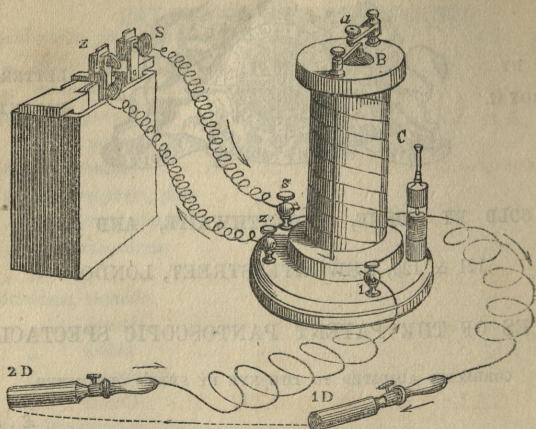
Folding Hand-Spectacles and Eye-Glasses to suspend round the neck, in Tortoiseshell, Blue Steel, Silver, or Fine Gold, from 6s. to £4s. 4s.

Single Eye-Glasses in Horn, Shell, Blue Steel, Silver, or Fine Gold, from 2s. to £3 3s.

Reading-Glasses, in a great variety of Mountings, from 5s. to 2 2s.

OPERA AND RACE GLASSES.

# ELECTRO-GALVANIC MACHINES



FOR  
**ADMINISTERING MEDICAL GALVANISM,**  
MANUFACTURED BY  
**HORNE, THORNTHWAITE, AND WOOD,**

121 & 123, NEWGATE STREET, LONDON.

Price in Mahogany Case, complete, with directions,  
£3 3s., £5 5s., and £8 8s.

THE great superiority of these machines over others previously made, consists in the current of electricity passing uniformly in one direction, as shown by the arrows in the above diagram. They will be found of the greatest advantage in Liver and Nervous Complaints, Rheumatism, Sciatica, Tic Doloureux, Paralysis, and a variety of diseases arising from an imperfect action of the secretions.

See "Guide to the Correct Administration of Medical Galvanism," by J. H. Horne, Surgeon, &c., price 2s. ; by post, 2s. 6d.



*Fifth Edition, Price 2s. 6d.,*

A GUIDE  
TO  
PHOTOGRAPHY,

CONTAINING SIMPLE AND CONCISE DIRECTIONS FOR OBTAINING

*Views, Portraits, &c.,*

BY THE ACTION OF LIGHT ON PREPARED SURFACES OF  
PAPER, GLASS, AND METAL,

INCLUDING THE

CALOTYPE, DAGUERRETYPE,

AND THE IMPROVED PROCESSES WITH

COLLODION, ALBUMEN, AND WAXED PAPER.

BY

W. H. THORNTHWAITE,

AUTHOR OF "PHOTOGENIC MANIPULATION," ETC.

---

GREAT EXHIBITION PRIZE MEDAL



FOR

PHOTOGRAPHIC APPARATUS.

HORNE, THORNTHWAITE, AND WOOD,

121 & 123, NEWGATE STREET, LONDON.

WORKS PUBLISHED AND SOLD BY  
**HORNE, THORNTHWAITE, AND WOOD,**  
OPTICAL, CHEMICAL, AND PHILOSOPHICAL INSTRUMENT MAKERS,  
121 and 123, NEWGATE-STREET, LONDON.

Third Edition. Price 2s. 6d.; by post, 3s.

**HORNE, THORNTHWAITE, AND WOOD'S** Illustrated and Descriptive Catalogue of Chemicals and Apparatus required for the Elucidation of the Chief Branches of Natural Philosophy, comprehending Chemistry, Meteorology, Heat, Electricity, Magnetism, Galvanism, Electro-Magnetism, Electro-Metallurgy, Pneumatics, Hydrostatics, Hydraulics, Optics, Mathematical, Surveying, and Astronomical Instruments, &c., containing upwards of

FIVE HUNDRED ENGRAVINGS ON WOOD.

In 64 pages, price 1s.; by post, 1s. 6d.

ILLUSTRATED BY A ZINC PLATE AND NUMEROUS WOOD-CUTS.

Dedicated by permission to

Sir J. F. W. HERSCHEL, Bart., K.H., M.A., D.C.L., F.R.S., P.R., &c., &c.

**VISION**  
**IN HEALTH AND DISEASE;**  
THE VALUE OF GLASSES FOR ITS RESTORATION, AND  
THE MISCHIEF CAUSED BY THEIR ABUSE:

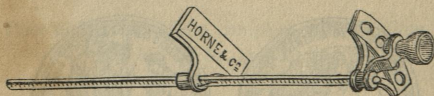
BEING THE SUBSTANCE OF

LECTURES DELIVERED AT THE CENTRAL LONDON  
OPHTHALMIC HOSPITAL,

**BY ALFRED SMEE, F.R.S.,**

SURGEON TO THE BANK OF ENGLAND, ETC., ETC.

Containing a description of Smeë's Optometer, for adapting optical contrivances for all diseased conditions of Vision.



Those of the public who are afflicted with imperfect vision, would find many valuable hints in this work, and would, we think, realize a saving both in person and pocket by avoiding the empiricism which the trade of an optician is open to, by taking as a guide Mr. Smeë's rules in the selection of glasses to suit their vision.—*Bridgewater Times.*

Just published, price 1s.; by post, 1s. 6d.

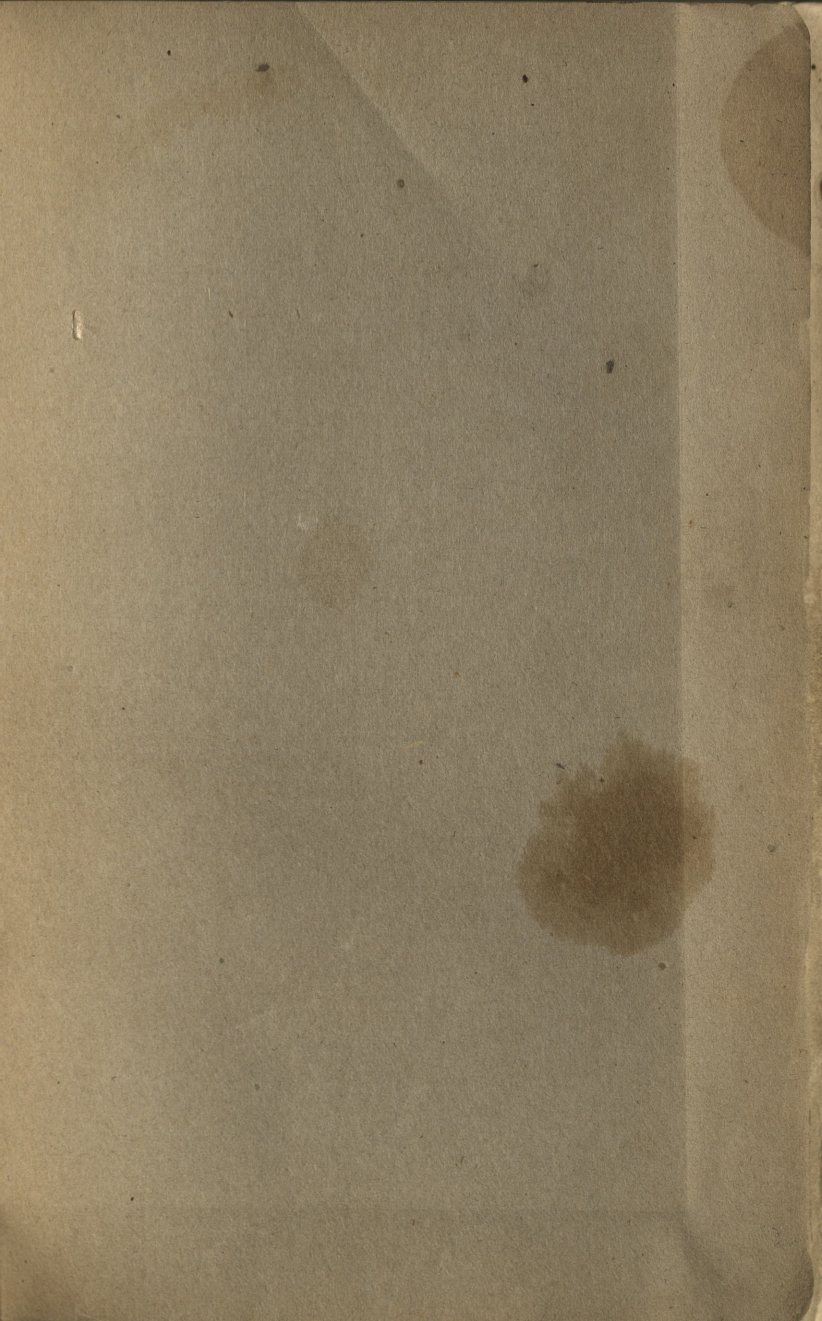
**A LECTURE ON ELECTRO-METALLURGY,**

DELIVERED AT THE BANK OF ENGLAND BY

**ALFRED SMEE, F.R.S.**

Containing the Theory of the Deposition of Metals by Electricity, and the practice of Electrotype, Electroplating, Gilding, &c., &c.





WORKS PUBLISHED AND SOLD BY  
**HORNE, THORNTHWAITE, AND WOOD,**  
OPTICAL, CHEMICAL, AND PHILOSOPHICAL INSTRUMENT MAKERS,  
121 and 123, NEWGATE-STREET, LONDON.

Third Edition. Price 2s. 6d.; by post, 3s.

**HORNE, THORNTHWAITE, AND WOOD'S** Illustrated and Descriptive Catalogue of Chemicals and Apparatus required for the Elucidation of the Chief Branches of Natural Philosophy, comprehending Chemistry, Meteorology, Heat, Electricity, Magnetism, Galvanism, Electro-Magnetism, Electro-Metallurgy, Pneumatics, Hydrostatics, Hydraulics, Optics, Mathematical, Surveying, and Astronomical Instruments, &c., containing upwards of

FIVE HUNDRED ENGRAVINGS ON WOOD.

In 64 pages, price 1s.; by post, 1s. 6d.  
ILLUSTRATED BY A ZINC PLATE AND NUMEROUS WOOD-CUTS.

Dedicated by permission to  
Sir J. F. W. HERSCHEL, Bart., K.H., M.A., D.C.L., F.R.S., P.R., &c., &c.

**VISION**  
**IN HEALTH AND DISEASE;**  
THE VALUE OF GLASSES FOR ITS RESTORATION, AND  
THE MISCHIEF CAUSED BY THEIR ABUSE:

BEING THE SUBSTANCE OF  
LECTURES DELIVERED AT THE CENTRAL LONDON  
OPHTHALMIC HOSPITAL,

BY **ALFRED SMEE, F.R.S.,**

SURGEON TO THE BANK OF ENGLAND, ETC., ETC.

Containing a description of Smees's Optometer, for adapting optical contrivances for all diseased conditions of Vision.



Those of the public who are afflicted with imperfect vision, would find many valuable hints in this work, and would, we think, realize a saving both in person and pocket by avoiding the empiricism which the trade of an optician is open to, by taking as a guide Mr. Smees's rules in the selection of glasses to suit their vision.—*Bridgewater Times.*

Just published, price 1s.; by post, 1s. 6d.

**A LECTURE ON ELECTRO-METALLURGY.**

DELIVERED AT THE BANK OF ENGLAND BY

**ALFRED SMEE, F.R.S.**

Containing the Theory of the Deposition of Metals by Electricity, and the practice of Electrotype, Electroplating, Gilding, &c., &c.